

Basic Mechanical

The proper operation of mechanical systems is essential to the sustained operation of critical facilities. Knowledge of mechanical components and systems can increase can increase the dependable and safe operation and maintenance of all types of equipment

The purpose of this course is to provide instruction of basic mechanical theory and principals as it applies to critical facilities mechanical and controls systems. The instructor will use lectures, visual aids and example calculations to provide the optimum learning experience.

Course Duration: 8 hours

INTRODUCTION

Purpose Presentation Methods Course Scope

SAFETY ISSUES

Rotating Equipment Compressed Air Refrigerant Safety Chemical Safety

MECHANICAL TERMS

Head Lift Approach

MECHANICAL THEORY

Heat Transfer Carnot Cycle Psychometric Chart

MECHANICAL OPERATIONS

Design Intent Common Equipment Configurations Economizer Options Redundancy